



(12) **United States Patent**
Stratton

(10) **Patent No.:** **US 9,908,669 B2**
(45) **Date of Patent:** **Mar. 6, 2018**

(54) **ANTI-GLUG DEVICE FOR LIQUID
CONTAINERS AND POUR SPOUTS**

B65D 47/043 (2013.01); **B65D 47/063**
(2013.01); **B65D 47/06** (2013.01); **B67D 3/00**
(2013.01)

(71) Applicant: **Container Packaging Systems, Inc.,**
Churubusco, IN (US)

(58) **Field of Classification Search**
CPC B65D 25/32; B65D 25/42; B65D 25/44;
B65D 25/465; B65D 47/32; B65D
47/043; B65D 47/063

(72) Inventor: **Jon Stratton**, Churubusco, IN (US)

USPC 222/108–111, 478, 541.9, 526–537,
222/566–574, 543
See application file for complete search history.

(73) Assignee: **Container Packaging Systems, Inc.,**
Churubusco, IN (US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(56) **References Cited**

U.S. PATENT DOCUMENTS

(21) Appl. No.: **15/614,198**

5,791,529 A * 8/1998 Mukai B65D 23/00
222/478

(22) Filed: **Jun. 5, 2017**

6,845,885 B2 * 1/2005 Morgenroth B65D 47/06
222/109

(65) **Prior Publication Data**

8,011,535 B2 * 9/2011 Tauber B65D 47/122
215/330
9,669,972 B2 * 6/2017 Stratton B65D 47/32

US 2017/0267425 A1 Sep. 21, 2017

* cited by examiner

Related U.S. Application Data

(63) Continuation-in-part of application No. 14/879,442,
filed on Oct. 9, 2015, now Pat. No. 9,669,972.

Primary Examiner — Paul R Durand
Assistant Examiner — Andrew P Bainbridge

(60) Provisional application No. 62/061,884, filed on Oct.
9, 2014.

(74) *Attorney, Agent, or Firm* — Lempia Summerfield
Katz LLC

(51) **Int. Cl.**

B65D 47/32 (2006.01)
B65D 25/42 (2006.01)
B65D 47/06 (2006.01)
B65D 47/04 (2006.01)
B65D 25/46 (2006.01)
B65D 25/44 (2006.01)
B65D 25/32 (2006.01)
B67D 3/00 (2006.01)

(57) **ABSTRACT**

A lid for a liquid container has a lid wall with a perimeter,
a top side surface, and an underside surface. The lid has an
anti-glug device carried on the lid wall and positioned to
coincide with a dispensing orifice in the lid wall. The
anti-glug device has a channel that partly circumferentially
surrounds the dispensing orifice. Terminal ends of the chan-
nel define a circumferential gap therebetween. One or more
air vents are formed axially through a part of the channel and
are disposed circumferentially opposite the circumferential
gap.

(52) **U.S. Cl.**

CPC **B65D 47/32** (2013.01); **B65D 25/32**
(2013.01); **B65D 25/42** (2013.01); **B65D**
25/44 (2013.01); **B65D 25/465** (2013.01);

25 Claims, 12 Drawing Sheets

